

#### ABSTRACT OF THE DISCLOSURE

A method, kit, system and reagent for performing coagulation assays with higher sensitivity and greater dynamic range is provided which involves the use of one or more metal compounds that interact with calcium binding sites in the blood coagulation cascade, particularly lanthanide compounds, manganese compounds and magnesium compounds. A Protein C reagent, kit, and assay method is also provided using the same type of metal compounds to provide greater detection sensitivity and dynamic range between samples.

C:\MyFiles\21940042.pa.wpd